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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference GW-SAR-9298-PCT	FOR FURTHER ACTION	See Notification Preliminary Exa	of Transmittal of International unination Report (Form PCT/IPEA/416)
International application No PCT/GB 03/01220	International filing date (day/mol	nth/year)	Priority date (day/month/year) 23.03.2002
International Patent Classification (IPC) or bo B05D3/04	th national classification and IPC	·	
Applicant UNIVERSITY OF DURHAM et al.		A .	a ana 184 to
This international preliminary exar Authority and is transmitted to the	nination report has been prep applicant according to Article	ared by this Inte 36.	rnational Preliminary Examining
2. This REPORT consists of a total of	of 5 sheets, including this cove	er sheet.	
hoon amended and are the	nied by ANNEXES, i.e. sheets basis for this report and/or she n 607 of the Administrative Ins	ets containing r	on, claims and/or drawings which have ectifications made before this Authority the PCT).
These annexes consist of a total of	of 4 sheets.		
3. This report contains indications re	elating to the following items:		
I ⊠ Basis of the opinion			
Ⅱ ☐ Priority			
III Non-establishment of	opinion with regard to novelty,	, inventive step a	and industrial applicability
IV Lack of unity of invent	ion		N
V ⊠ Reasoned statement citations and explanat	under Rule 66.2(a)(ii) with regations supporting such statemen	ard to novelty, in nt	ventive step or industrial applicability;
VI Certain documents cit			
	international application		
	on the international applicatior	1	
		of completion of the	hie rapart
Date of submission of the demand	Date	of completion of the	nis report
22.09.2003	21.0	06.2004	
Name and mailing address of the internation preliminary examining authority:	nal Auth	orized Officer	graductures Patraces on . E.
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5230 Fax: +49 89 2399 - 4465	656 epmu d	helen, D phone No. +49 89	2399-8150

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/01220

I.	Ba	sis	of	the	re	por	t
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the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)): **Description, Pages** as originally filed 1-26 Claims, Numbers 44 444 filed with telefax on 27.04.2004 1-22 **Drawings, Sheets** as originally filed 1/23-23/23 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language: , which is: the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)). the language of publication of the international application (under Rule 48.3(b)). the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: contained in the international application in written form. illed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

☐ the description,

☐ the claims.

☐ the drawings.

4. The amendments have resulted in the cancellation of:

pages: Nos.:

sheets:

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/GB 03/01220

5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)
	We be the state of

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-22

Inventive step (IS)

Claims No:

1-22

Yes: Claims Claims No:

Industrial applicability (IA)

Yes: Claims

1-22

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY InterEXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D2:	EP-A-0 574 352 (CIBA GEIGY AG) 15 December	1993	(1993-12-	-15)
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D3: US-A-5 318 552 (SHIBA DAISUKE ET AL) 7 June 1994 (1994-06-07)

D4: US-A-5 972 505 (BAGRODIA SHRIRAM ET AL) 26 October 1999 (1999-10-26)

D5: WO 92 00407 A (EASTMAN KODAK CO) 9 January 1992 (1992-01-09)

D6: US-A-5 236 563 (LOH INH-HOUNG) 17 August 1993 (1993-08-17)

If not indicated otherwise the relevant passages are those mentioned in the search report.

1. Novelty and inventive step:

1.1 Prior art:

Document D2 discloses a process for the surface modification, i.e imparting hydrophilicity, of a polymer substrate by plasma treatment, e.g. with Argon.

Document D3 discloses a method for imparting absorptivity to a material by bonding a hydrophilic polymer to a fibre by plasma treatment.

Document D4 discloses a process for improving the liquid transport properties of a fibre by plasma treatment.

Document D5 discloses a process for improving the liquid transport properties of a fibre by plasma treatment.

Document D6 discloses a process for modifying the surface properties of a polymeric substrate by cross-linking the polymer with a plasma treatment.

1.2 Document D2 which is considered to be the closest prior art discloses a process for imparting hydrophilicity to a polymer substrate by plasma treatment.



EXAMINATION REPORT - SEPARATE SHEET

The subject-matter of claim 1 differs in that the process comprises first a crosslinking step followed by plasma deposition or plasma modification. The problem to be solved may thus be regarded as to provide an improved process for conditioning substrates. The two step plasma treatment imparts improved properties of stability and wettability to the material (see p22-23, fig.13-15) which was not predictable in view of the prior art. Therefore, claim 1 is considered as inventive insofar as the cross-linking is performed by plasma treatment.

1.3 The subject-matter of claim 22 is a substrate modified by the process of claim 1. The two step plasma treatment results in an improvement of the properties of the substrate (see point 1.2). Claim 22 is thus new and inventive.

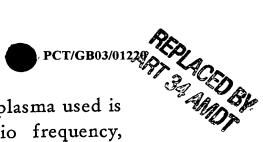
PCT/GB03/01220

Claims

1. A method of applying a conditioning effect to a material substrate, said method including the step of performing a plasma modification and/or plasma deposition treatment on the substrate, said conditioning effect comprising exposing the substrate to any, or any combination of, at least two treatment steps: (i) cross-linking of either or both the exterior and internal surfaces of the substrate; and/or (ii) plasma modification or plasma deposition of/onto the cross-linked material.

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- 2. A method according to claim 1 wherein steps (i) and (ii) are both performed and in sequence.
- 3. A method according to claim 1 wherein the precursor gas used in the generation of the plasma is a noble, inert or nitrogenous gas.
- 4. A method according to any preceding claims wherein the coating material is modified in the form of a hydrophilic layer in the first step with the plasma treatment in the second step acting to oxidise or nitrogenate the material.
- 5. A method according to claim 4 wherein the precursor gas or liquid used in the plasma treatment step are oxygen or nitrogen containing chemical compounds.
- 6. A method according to any of the preceding claims wherein an oxidation method is used in the form of ozonolysis.
- 7. A method according to claim 1 wherein the precursor gas or liquid used for the plasma treatment in step 2 (ii) contains fluoride.



- 8. A method according to claim 1 wherein the plasma used is a non-equilibrium plasma generated by a radio frequency, microwaves and/or direct current.
- 9. A method according to any of the preceding claims wherein the plasma power applied during the first step is in the range of 0.01 watt to 500 watts.
- 10. A method according to any of the preceding claims wherein the plasma power applied during the second step is in the range of 0.01 watt to 500 watts.
- 11. A method according to any of the preceding claims wherein the plasma power applied during either or both of the first and second steps is pulsed.
- 12. A method according to any of the preceding claims wherein the precursor gas or liquid introduced during either or both the first and second steps is pulsed.
- 13. A method according to any of the preceding claims wherein the substrate is defined as any article capable of supporting a coating applied thereto.
- 14. A method according to claim 13 wherein the substrate is a porous article with an exterior surface, a bulk matrix and pores extending from the exterior surface into the bulk matrix, said bulk matrix exterior and interstitial surfaces, at least in part, polymeric or oligomeric.
- 15. A method according to claim 14 wherein the bulk matrix is a polyolefin.

- n the bulk matrix
- 16. A method according to Claim 15 wherein the bulk matrix has a void volume ranging from 0.01% to 99%.
- 17. A method according to any of the preceding claims wherein step (i) is controlled such that the effect of said step is controlled to be applied to a limited depth of the material below the external surface.
- 18. A method according to any of the preceding claims wherein in step (ii) the effect of said step is controlled to be applied to a limited depth into the material below the external surface of the substrate.
- 19. A method according to any of the preceding claims wherein the plasma used in either or both steps (i) and (ii) is selectively applied to localised areas across the substrate surface and/or below the substrate surface.
- 20. A method according to any of the preceding claims wherein the material is an absorbent, hydrophobic polymer which is heated by step (i) to be cross linked by a noble gas plasma to improve its ability to retain liquid and render it superabsorbent.
- 21. A method according to claim 20 wherein the material is modified by a subsequent nitrogenating plasma as step (ii) to render said cross linked polymer compatible with amine functionalities to form a super-absorbent polymer capable of retaining large quantities of amine containing aqueous solutions.
- 22 A method according to any of the preceding claims wherein the substrate is a superabsorbent material.

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23 A substrate having a modified surface, said surface modified

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1 mosthod as set out in any of claims 1-22.

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onal Application No PCT/GB 03/01220

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B05D3/04 B05D3/14

C08J7/18

A61L15/60

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ CO8J \ A61L \ BO5D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS, COMPENDEX, CHEM ABS Data

C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with Indication, where appropriate, of ti	he relevant passages	Relevant to claim No.
Р,Х	WO 02 26871 A (BASF AG ;BECK M MOHR BERNHARD (DE); BAUMGARTL 4 April 2002 (2002-04-04) page 2, line 42 -page 3, line	HORST (DE)	1-6,13, 14,20,23
X .	EP 0 574 352 A (CIBA GEIGY AG) 15 December 1993 (1993-12-15) page 2, line 50 - line 57 examples 4,6,9		1-23
X	US 5 318 552 A (SHIBA DAISUKE 7 June 1994 (1994-06-07) column 6, line 45 - line 60; c		1-23
X	US 5 972 505 A (BAGRODIA SHRIF 26 October 1999 (1999-10-26) column 27; example 7 column 52; example 27	RAM ET AL)	1-23
			·
χ Furt	her documents are listed in the continuation of box C.	Patent family members are its	sted in annex.
"A" docume consider it docume which citation "O" docume other "P" docume later the Date of the	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but han the priority date claimed actual completion of the international search August 2003	"T" later document published after the or priority date and not in conflict died to understand the principle of invention "X" document of particular relevance; invention be considered novel or call involve an inventive step when the "Y" document of particular relevance; in cannot be considered to involve a document is combined with one of ments, such combination being of in the art. "&" document member of the same particular relevance of mailing of the international support of the same particular of the same particular of the international support of the same particular of the international support of the same particular of the same	with the application but or theory underlying the statement invention innot be considered to e document is taken alone the claimed invention an inventive step when the or more other such docubious to a person skilled
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Authorized officer Bochelen, D	



Ini ional Application No PCT/GB 03/01220

C (Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 92 00407 A (EASTMAN KODAK CO) 9 January 1992 (1992-01-09) page 30; example 7	1-23
X	page 30; example 7 US 5 236 563 A (LOH INH-HOUNG) 17 August 1993 (1993-08-17) column 3, line 13 - line 40	1-19,23



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